RAW SEQUENCE LISTING
ERROR REPORT

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Application Serial Number: 10| 689, 677 A

Source: TPWO

Date Processed by STIC: 9| 9| 04

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2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
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http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

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3. Hand Carry directly to (EFFECTIVE 12/01/03):
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Revised 10/08/03

IFWO

RAW SEQUENCE LISTING   DATE: 04/09/2004
PATENT APPLICATION: **US/10/689,677A**   TIME: 16:19:57

Input Set : **A:\sequences for 08702.0093-00000.txt**
Output Set: **N:\CRF4\04092004\J689677A.raw**

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   3 <110> APPLICANT: Wyeth
   4       Wolfman, Neil
   5       Bouxsein, Mary
   7 <120> TITLE OF INVENTION: ActRIIB Fusion polypeptides and Uses Therefor
   9 <130> FILE REFERENCE: 08702.0093-00000
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/689,677A
C--> 11 <141> CURRENT FILING DATE: 2003-10-22
  11 <160> NUMBER OF SEQ ID NOS: 6
  13 <170> SOFTWARE: PatentIn version 3.1
  15 <210> SEQ ID NO: 1
  16 <211> LENGTH: 512
  17 <212> TYPE: PRT
  18 <213> ORGANISM: Human
  20 <400> SEQUENCE: 1
  22 Met Thr Ala Pro Trp Val Ala Leu Ala Leu Leu Trp Gly Ser Leu Cys
  23 1               5                   10                  15
  26 Ala Gly Ser Gly Arg Gly Glu Ala Glu Thr Arg Glu Cys Ile Tyr Tyr
  27             20                  25                  30
  30 Asn Ala Asn Trp Glu Leu Glu Arg Thr Asn Gln Ser Gly Leu Glu Arg
  31         35                  40                  45
  34 Cys Glu Gly Glu Gln Asp Lys Arg Leu His Cys Tyr Ala Ser Trp Ala
  35     50                  55                  60
  38 Asn Ser Ser Gly Thr Ile Glu Leu Val Lys Lys Gly Cys Trp Leu Asp
  39 65                  70                  75                  80
  43 Asp Phe Asn Cys Tyr Asp Arg Gln Glu Cys Val Ala Thr Glu Glu Asn
  44                 85                  90                  95
  47 Pro Gln Val Tyr Phe Cys Cys Cys Glu Gly Asn Phe Cys Asn Glu Arg
  48             100                 105                 110
  51 Phe Thr His Leu Pro Glu Ala Gly Gly Pro Glu Val Thr Tyr Glu Pro
  52         115                 120                 125
  55 Pro Pro Thr Ala Pro Thr Leu Leu Thr Val Leu Ala Tyr Ser Leu Leu
  56     130                 135                 140
  59 Pro Ile Gly Gly Leu Ser Leu Ile Val Leu Leu Ala Phe Trp Met Tyr
  60 145                 150                 155                 160
  63 Arg His Arg Lys Pro Pro Tyr Gly His Val Asp Ile His Glu Asp Pro
  64             165                 170                 175
  67 Gly Pro Pro Pro Pro Ser Pro Leu Val Gly Leu Lys Pro Leu Gln Leu
  68             180                 185                 190
  71 Leu Glu Ile Lys Ala Arg Gly Arg Phe Gly Cys Val Trp Lys Ala Gln
  72         195                 200                 205
  75 Leu Met Asn Asp Phe Val Ala Val Lys Ile Phe Pro Leu Gln Asp Lys
  76     210                 215                 220
  79 Gln Ser Trp Gln Ser Glu Arg Glu Ile Phe Ser Thr Pro Gly Met Lys
```

Not Comply
Corrected Diskette Needed
(Pg. 3, 5)

```
80 225                    230                    235                    240
83 His Glu Asn Leu Leu Gln Phe Ile Ala Ala Glu Lys Arg Gly Ser Asn
84                    245                    250                    255
87 Leu Glu Val Glu Leu Trp Leu Ile Thr Ala Phe His Asp Lys Gly Ser
88                    260                    265                    270
91 Leu Thr Asp Tyr Leu Lys Gly Asn Ile Ile Thr Trp Asn Glu Leu Cys
92          275                    280                    285
95 His Val Ala Glu Thr Met Ser Arg Gly Leu Ser Tyr Leu His Glu Asp
96       290                    295                    300
99 Val Pro Trp Cys Arg Gly Glu Gly His Lys Pro Ser Ile Ala His Arg
100 305                    310                    315                    320
104 Asp Phe Lys Ser Lys Asn Val Leu Leu Lys Ser Asp Leu Thr Ala Val
105                    325                    330                    335
108 Leu Ala Asp Phe Gly Leu Ala Val Arg Phe Glu Pro Gly Lys Pro Pro
109                    340                    345                    350
112 Gly Asp Thr His Gly Gln Val Gly Thr Arg Arg Tyr Met Ala Pro Glu
113          355                    360                    365
116 Val Leu Glu Gly Ala Ile Asn Phe Gln Arg Asp Ala Phe Leu Arg Ile
117       370                    375                    380
120 Asp Met Tyr Ala Met Gly Leu Val Leu Trp Glu Leu Val Ser Arg Cys
121 385                    390                    395                    400
124 Lys Ala Ala Asp Gly Pro Val Asp Glu Tyr Met Leu Pro Phe Glu Glu
125                    405                    410                    415
128 Glu Ile Gly Gln His Pro Ser Leu Glu Glu Leu Gln Glu Val Val Val
129                    420                    425                    430
132 His Lys Lys Met Arg Pro Thr Ile Lys Asp His Trp Leu Lys His Pro
133          435                    440                    445
136 Gly Leu Ala Gln Leu Cys Val Thr Ile Glu Glu Cys Trp Asp His Asp
137       450                    455                    460
140 Ala Glu Ala Arg Leu Ser Ala Gly Cys Val Glu Glu Arg Val Ser Leu
141 465                    470                    475                    480
144 Ile Arg Arg Ser Val Asn Gly Thr Thr Ser Asp Cys Leu Val Ser Leu
145                    485                    490                    495
148 Val Thr Ser Val Thr Asn Val Asp Leu Pro Pro Lys Glu Ser Ser Ile
149                    500                    505                    510
152 <210> SEQ ID NO: 2
153 <211> LENGTH: 375
154 <212> TYPE: PRT
155 <213> ORGANISM: Human
157 <400> SEQUENCE: 2
160 Met Gln Lys Leu Gln Leu Cys Val Tyr Ile Tyr Leu Phe Met Leu Ile
161 1                  5                   10                  15
164 Val Ala Gly Pro Val Asp Leu Asn Glu Asn Ser Glu Gln Lys Glu Asn
165                    20                   25                  30
168 Val Glu Lys Glu Gly Leu Cys Asn Ala Cys Thr Trp Arg Gln Asn Thr
169          35                   40                   45
172 Lys Ser Ser Arg Ile Glu Ala Ile Lys Ile Gln Ile Leu Ser Lys Leu
173       50                   55                   60
176 Arg Leu Glu Thr Ala Pro Asn Ile Ser Lys Asp Val Ile Arg Gln Leu
```

RAW SEQUENCE LISTING

DATE: 04/09/2004

PATENT APPLICATION: **US/10/689,677A**

TIME: 16:19:57

Input Set : **A:\sequences for 08702.0093-00000.txt**

Output Set: **N:\CRF4\04092004\J689677A.raw**

```
177 65                       70                75                   80
180 Leu Pro Lys Ala Pro Pro Leu Arg Glu Leu Ile Asp Gln Tyr Asp Val
181              85                   90              95
184 Gln Arg Asp Asp Ser Ser Asp Gly Ser Leu Glu Asp Asp Asp Tyr His
185             100                  105             110
188 Ala Thr Thr Glu Thr Ile Ile Thr Met Pro Thr Glu Ser Asp Phe Leu
189             115                  120             125
192 Met Gln Val Asp Gly Lys Pro Lys Cys Cys Phe Phe Lys Phe Ser Ser
193         130                  135             140
196 Lys Ile Gln Tyr Asn Lys Val Val Lys Ala Gln Leu Trp Ile Tyr Leu
197 145                  150             155                 160
200 Arg Pro Val Glu Thr Pro Thr Thr Val Phe Val Gln Ile Leu Arg Leu
201                  165             170                 175
204 Ile Lys Pro Met Lys Asp Gly Thr Arg Tyr Thr Gly Ile Arg Ser Leu
205             180                  185             190
208 Lys Leu Asp Met Asn Pro Gly Thr Gly Ile Trp Gln Ser Ile Asp Val
209         195                  200             205
212 Lys Thr Val Leu Gln Asn Trp Leu Lys Gln Pro Glu Ser Asn Leu Gly
213     210                  215             220
216 Ile Glu Ile Lys Ala Leu Asp Glu Asn Gly His Asp Leu Ala Val Thr
217 225                  230             235                 240
221 Phe Pro Gly Pro Gly Glu Asp Gly Leu Asn Pro Phe Leu Glu Val Lys
222                  245             250                 255
225 Val Thr Asp Thr Pro Lys Arg Ser Arg Arg Asp Phe Gly Leu Asp Cys
226             260                  265             270
229 Asp Glu His Ser Thr Glu Ser Arg Cys Cys Arg Tyr Pro Leu Thr Val
230         275                  280             285
233 Asp Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg Tyr
234     290                  295             300
237 Lys Ala Asn Tyr Cys Ser Gly Glu Cys Glu Phe Val Phe Leu Gln Lys
238 305                  310             315                 320
241 Tyr Pro His Thr His Leu Val His Gln Ala Asn Pro Arg Gly Ser Ala
242             325                  330             335
245 Gly Pro Cys Cys Thr Pro Thr Lys Met Ser Pro Ile Asn Met Leu Tyr
246             340                  345             350
249 Phe Asn Gly Lys Glu Gln Ile Ile Tyr Gly Lys Ile Pro Ala Met Val
250         355                  360             365
253 Val Asp Arg Cys Gly Cys Ser
254     370                  375
257 <210> SEQ ID NO: 3
258 <211> LENGTH: 378
259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE: Chimera
262 <223> OTHER INFORMATION: Fusion
264 <400> SEQUENCE: 3
266 Met Lys Phe Leu Val Asn Val Ala Leu Val Phe Met Val Val Tyr Ile
267 1              5                   10              15
270 Ser Tyr Ile Tyr Ala Thr Ser Gly Arg Gly Glu Ala Glu Thr Arg Glu
```

W--> (handwritten annotations: "move to <223>", "Chimera — delete", "mandatory, please do NOT insert any responses in Section <220>", "Line <220> must be kept blank at all times!")

4/9/04

RAW SEQUENCE LISTING   DATE: 04/09/2004
PATENT APPLICATION: **US/10/689,677A**   TIME: 16:19:57

Input Set : **A:\sequences for 08702.0093-00000.txt**
Output Set: **N:\CRF4\04092004\J689677A.raw**

```
271              20              25              30
274 Cys Ile Tyr Tyr Asn Ala Asn Trp Glu Leu Glu Arg Thr Asn Gln Ser
275      35              40              45
279 Gly Leu Glu Arg Cys Glu Gly Glu Gln Asp Lys Arg Leu His Cys Tyr
280      50              55              60
283 Ala Ser Trp Arg Asn Ser Ser Gly Thr Ile Glu Leu Val Lys Lys Gly
284 65              70              75              80
287 Cys Trp Leu Asp Asp Phe Asn Cys Tyr Asp Arg Gln Glu Cys Val Ala
288              85              90              95
291 Thr Glu Glu Asn Pro Gln Val Tyr Phe Cys Cys Cys Glu Gly Asn Phe
292              100             105             110
295 Cys Asn Glu Arg Phe Thr His Leu Pro Glu Ala Gly Gly Pro Glu Val
296      115             120             125
299 Thr Tyr Glu Pro Pro Pro Thr Ala Pro Thr Gly Gly Arg Gly Asp Asp
300      130             135             140
303 Asp Asp Lys Thr Arg Ser Arg Asp Lys Thr His Thr Cys Pro Pro Cys
304 145             150             155             160
307 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
308              165             170             175
311 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
312              180             185             190
315 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
316      195             200             205
319 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
320      210             215             220
323 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
324 225             230             235             240
327 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
328              245             250             255
331 Lys Ala Leu Pro Val Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
332              260             265             270
335 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
336      275             280             285
340 Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
341      290             295             300
344 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
345 305             310             315             320
348 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
349              325             330             335
352 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
353      340             345             350
356 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
357      355             360             365
360 Gln Lys Ser Leu Ser Leu Ser Pro Pro Lys
361      370             375
364 <210> SEQ ID NO: 4
365 <211> LENGTH: 1134
366 <212> TYPE: DNA
367 <213> ORGANISM: Artificial Sequence
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```
          RAW SEQUENCE LISTING              DATE: 04/09/2004
          PATENT APPLICATION:  US/10/689,677A        TIME: 16:19:57

          Input Set : A:\sequences for 08702.0093-00000.txt
          Output Set: N:\CRF4\04092004\J689677A.raw
```

W--> 368 <220> FEATURE: Chimera ← *move to <223>* *same error*
     369 <223> OTHER INFORMATION: Fusion
     371 <400> SEQUENCE: 4

```
372 atgaaattct tagtcaacgt tgcccttgtt tttatggtcg tgtacatttc ttacatctat   60
374 gcgactagtg ggcgtgggga ggctgagaca cgggagtgca tctactacaa cgccaactgg  120
376 gagctggagc gcaccaacca gagcggcctg gagcgctgcg aaggcgagca ggacaagcgg  180
378 ctgcactgct acgcctcctg gcgcaacagc tctggcacca tcgagctcgt gaagaagggc  240
380 tgctggctag atgacttcaa ctgctacgat aggcaggagt gtgtggccac tgaggagaac  300
382 ccccaggtgt acttctgctg ctgtgaaggc aacttctgca acgagcgctt cactcatttg  360
384 ccagaggctg ggggcccgga agtcacgtac gagccacccc cgacagcccc caccggcggc  420
386 cgcggagacg acgacgacaa gacgcgttct agagacaaaa ctcacacatg cccaccgtgc  480
388 ccagcacctg aactcctggg gggaccgtca gtcttcctct ccccccaaa  acccaaggac  540
390 accctcatga tctcccggac ccctgaggtc acatgcgtgg tggtggacgt gagccacgaa  600
392 gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca  660
394 aagccgcggg aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg  720
396 caccaggact ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca  780
398 gtccccatcg agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac  840
400 accctgcccc catcccggga ggagatgacc aagaaccagg tcagcctgac ctgcctggtc  900
402 aaaggcttct atcccagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac  960
404 aactacaaga ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctatagcaag 1020
406 ctcaccgtgg acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat 1080
408 gaggctctgc acaaccacta cacgcagaag agcctctccc tgtccccgcc taaa        1134
```

     411 <210> SEQ ID NO: 5
     412 <211> LENGTH: 4
     413 <212> TYPE: PRT
     414 <213> ORGANISM: Artificial Sequence
W--> 415 <220> FEATURE: Linking Sequence ← *move to <223>* *same error*
     416 <223> OTHER INFORMATION: Gly-Ser repeat
     418 <400> SEQUENCE: 5
     420 Gly Ser Gly Ser
     421 1

     424 <210> SEQ ID NO: 6
     425 <211> LENGTH: 4
     426 <212> TYPE: PRT
     427 <213> ORGANISM: Artificial Sequence *move to <223>, same error*
W--> 428 <220> FEATURE: Linking Sequence ←
     429 <223> OTHER INFORMATION: Enterokinase Cleavage Site
     431 <400> SEQUENCE: 6
     433 Asp Asp Asp Lys
     434 1

VERIFICATION SUMMARY   DATE: 04/09/2004
PATENT APPLICATION: **US/10/689,677A**   TIME: 16:19:59

Input Set : **A:\sequences for 08702.0093-00000.txt**
Output Set: **N:\CRF4\04092004\J689677A.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:261 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:368 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:415 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:428 M:256 W: Invalid Numeric Header Field, <220> has non-blank data